

## NISTTech

### PROBE-BASED HIGH PRECISION SPATIAL ORIENTATION CONTROL AND ASSEMBLY OF PARTS FOR MICROASSEMBLY USING COMPUTER VISION

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#### Images

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From Patent Application.

#### Abstract

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A microassembly method and system utilizing multiple probes. Multiple manipulation actuators can be utilized for maintaining/holding one or more probes and an assembly substrate. Multiple microscope cameras can be configured to provide three distinct workspace configurations. At the center of each manipulation actuator is a die stage, which supports the assembly substrate upon which parts are assembled. A glue dispenser can also provide glue to a part prior to placement in emission of FUV radiation, and detection of the FUV radiation using an optical detector. ;

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#### References

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- 13/469,479

#### Status of Availability

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